

**BY ORDER OF THE CHIEF,
NATIONAL GUARD BUREAU**



**AIR NATIONAL GUARD POLICY
DIRECTIVE 90-2112**

1 JULY 2003

Command Policy

**COMPLIANCE AND STANDARDIZATION
REQUIREMENT LIST (C&SRL) TEST,
MEASUREMENT, AND DIAGNOSTIC
EQUIPMENT (TMDE) FLIGHT**

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This directory implements Air Force Policy Directive (AFPD) 90-2, The Inspection System, and is applicable to all Air National Guard (ANG) flying units. Compliance with this directory and its parent instruction Air National Guard Instruction (ANGI) 21-101, Maintenance Management of Aircraft, is mandatory. Units will supplement this publication with items developed from appropriate technical data, Air Force Occupational Safety and Health (AFOSH) Standards (STD), local operating instructions (OI), etc., to assess internal compliance. Higher Headquarters/Inspector General (HHQ/IG) may use this directory in whole or in part during evaluations and exercises.

SUMMARY OF REVISIONS

This document is substantially revised and must be completely reviewed.

1. The items listed do not constitute the order or limit the scope of the inspection/assessment. As a minimum, units will use this directory in conjunction with the annual unit self-inspection. The objective is to identify deficiencies that preclude attainment of required capabilities.

Table 1. Test, Measurement, and Diagnostic Equipment (TMDE) Flight

ITEM NO.	ITEM AND REFERENCES (All references are to ANGI 21-101 unless otherwise indicated)	YES	NO	N/A
1.	Test, Measurement, and Diagnostic Equipment (TMDE) Flight.			
1.1.	Has the MXG/CC designated a Test, Measurement, and Diagnostic, Equipment (TMDE) coordinator for liaison between the unit and the servicing TMDE laboratory? (4.14.)			
1.2.	Have local OIs been published to ensure that unit TMDE is controlled, calibrated, repaired, and certified in accordance with (IAW) prescribed directives? (4.14.)			
1.3.	If required, has a host tenant agreement with the servicing Precision Measurement Equipment Laboratory (PMEL) been accomplished? (4.14.)			
1.4.	Are all TMDE specified as PMEL responsibility in TO 33K-1-100-1/2 sent to the PMEL for scheduled calibration and repair? (4.14.)			
1.5.	Where an ANG Type II PMEL is assigned, does the appropriate commander ensure the PMEL conforms to the provisions outlined in TO 00-20-14, <i>Air Force Metrology and Calibration (AFMETCAL) Program</i> ? (4.14.)			
1.6.	Are Calibration responsibility waivers considered for “Torque Wrenches Only”? (4.14.)			
1.7.	If a Fighter unit, do you assign the torque wrench calibration function to the Avionics Intermediate Shop (AIS)/Intermediate Automated Test Station (IATS)? (4.14.)			
1.8.	If an Airlift/Tanker unit, do you assign the torque wrench calibration function to the Avionics Guidance and Control Shop? (4.14.)			
1.9.	If your Unit received approval for a Torque Wrench Calibration Site, do you comply with all requirements listed in Chapter 18.32? (4.14.)			
2.	Torque Wrench Calibration Site. (Section 2 is applicable only to those units listed in TO00-20-14 and approved by the Air Force Metrology and Calibration (AFMETCAL) Det 1 as a Limited User/Owner Torque Calibration/Repair Capability.)			
2.1.	Does the site ensure torque devices are calibrated per any applicable Calibration and Measurement Summary (CMS) or TO 33K-1-100-1/2? (18.32.)			
2.2.	Are only approved Torque Calibration Standards or equivalent equipment meeting accuracy requirements as per calibration procedures used to certify torque devices? (18.32.1.)			

ITEM NO.	ITEM AND REFERENCES (All references are to ANGI 21-101 unless otherwise indicated)	YES	NO	N/A
2.3.	Are unit Torque Calibration Standards calibrated by an AFMETCAL program PMEL? (18.32.1.)			
2.4.	Are only torque devices owned by the organization calibrated on this site? (18.32.2.)			
2.5.	Are torque devices beyond the capability of the organization to calibrate sent to the Unit's supporting PMEL? (18.32.2.)			
2.6.	Are all personnel performing torque calibrations properly trained? (18.32.3.)			
2.7.	At a minimum, do personnel performing torque calibrations possess a 2P0X1 AFSC or have they attended Torque Wrench Calibration Course # E2RST2P031 002 or have they successfully participated in an On-the-Job training program provided by a technician with the above qualifications? (18.32.3.)			
2.8.	Does the site maintain a Certification Roster of all qualified personnel performing torque calibrations? (18.32.4.)			
2.9.	Does the site possess a capability (Chart Recorder) to monitor and record the environment in the calibration area? (18.32.5.)			
2.10.	Is the site environment maintained at a temperature of 73°F ± 9°F with Relative Humidity between 15 and 70% RH during the 24 hour period from the time torque devices are introduced into the calibration area until the calibration procedure is completed? (18.32.5.)			
2.11.	Are environmental records kept on file for a minimum of 6 months? (18.32.5.)			
2.12.	Does the site ensure a complete inventory of all torque devices calibrated at unit level is maintained current, and it is made available on request by AFMETCAL Det 1? (18.32.6.)			
2.13.	Has the Torque Calibration Site supervisor developed an internal Quality Program (QP) specifically tailored to the torque calibration function? (18.32.7.)			
2.14.	At a minimum, does the QP establish a process to randomly select 3% of the scheduled monthly calibrations (but not less than two (2) certified torque devices per month) for a Quality Review (QR) and every six months accomplish a Process Review (PR) on each qualified technician? (18.32.7.)			
2.15.	Does the supervisor manage the internal Quality Program and maintain a log/record of all QRs/PRs? (18.32.7.)			
2.16.	Does supervision initial or sign the log/record when findings result in failure and initiate corrective action as necessary? (18.32.7.)			

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2.17.	Is the log/record maintained for a minimum of two years? (18.32.7.)			
2.18.	Does the site provide maintenance data collection (MDC), if requested, in a format determined by AFMETCAL Det 1? (18.32.8.)			

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